

PATENT ABSTRACTS OF JAPAN

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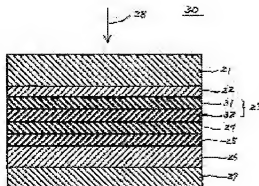
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(54) MAGNETO-OPTICAL RECORDING MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a magneto-optical recording medium of a higher density ameliorated in jitter characteristics by minifying the floating magnetic fields of a magnetic wall displacement layer in a temperature region where reproduction is performed by the magnetic wall displacement.

SOLUTION: The magneto-optical recording medium has a first magnetic layer 23, second magnetic layer 24 and third magnetic layer 25 successively formed on a transparent substrate 21, in which the first magnetic layer 23 functions as a displacement layer giving rise to the displacement of the magnetic walls by the temperature gradient created by irradiation with a laser beam; the third magnetic layer 25 functions as a recording layer formed of a perpendicularly magnetized film having coercive force sufficient for magnetic domains to exist stably at room temperature; and the second magnetic layer 24 functions as a control layer for controlling the exchange bonding between the first magnetic layer 23 and the third magnetic layer 25. The first magnetic layer 23 is formed as antiparallel exchange bonded two-layered films consisting of a perpendicularly magnetized film 31 of a rare earths-iron group in which the iron group is dominant and perpendicularly magnetized film 32 of a rare earths- iron group in which the rare earths are dominant.



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